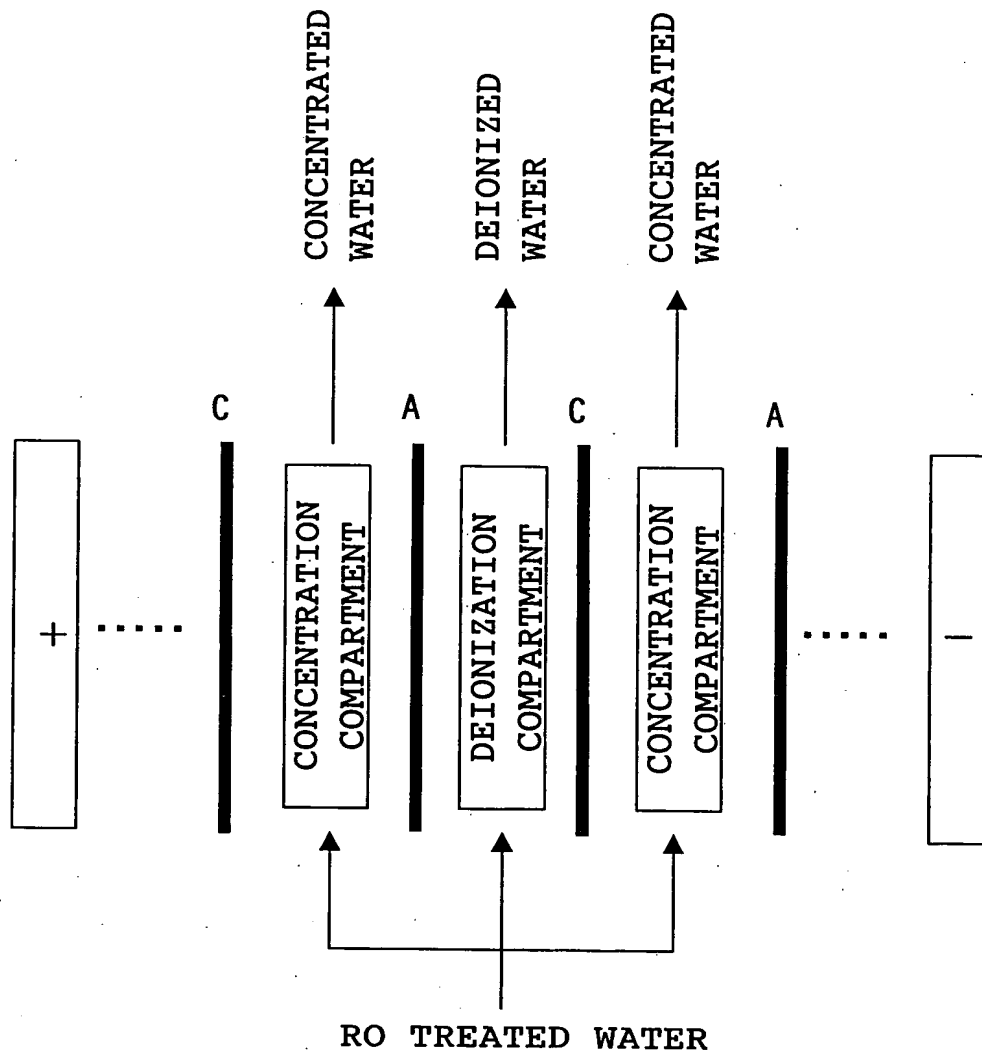


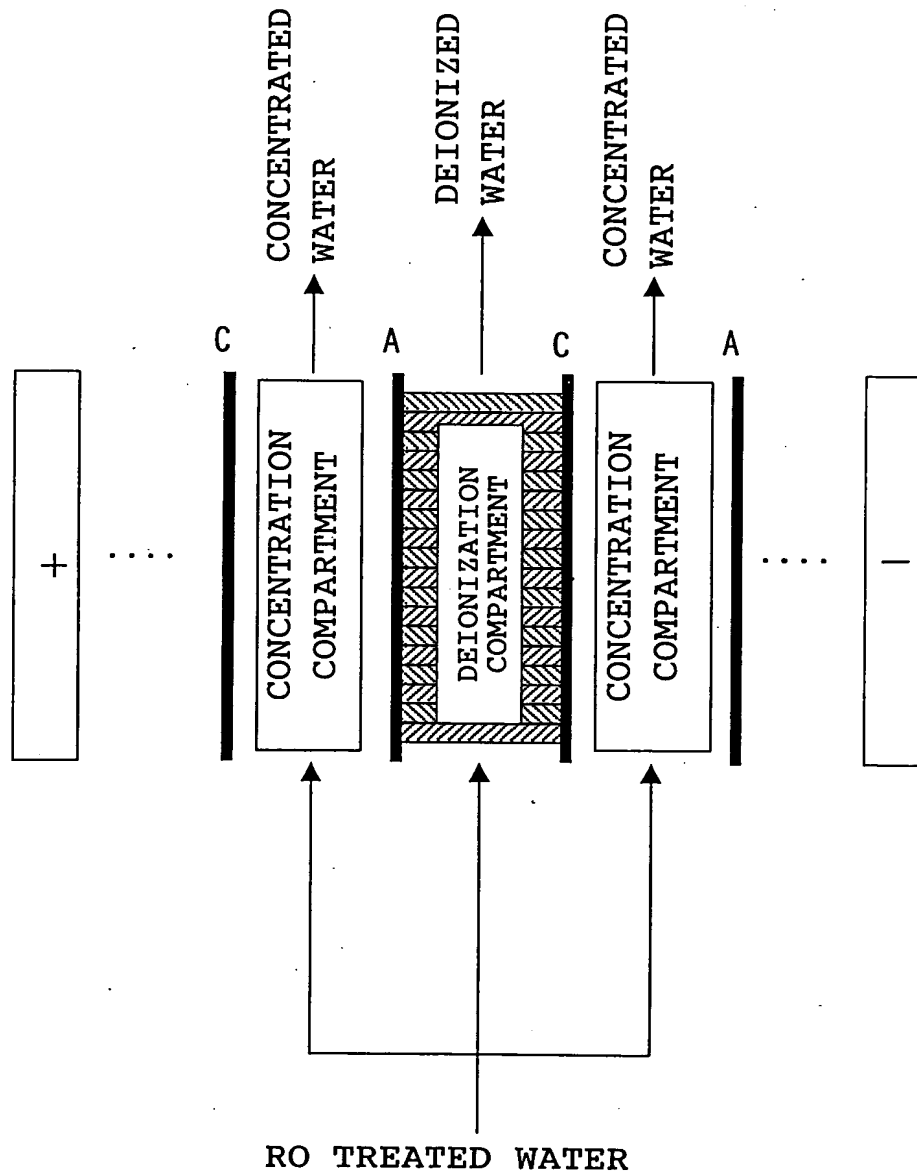
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FIG. 1



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FIG. 2

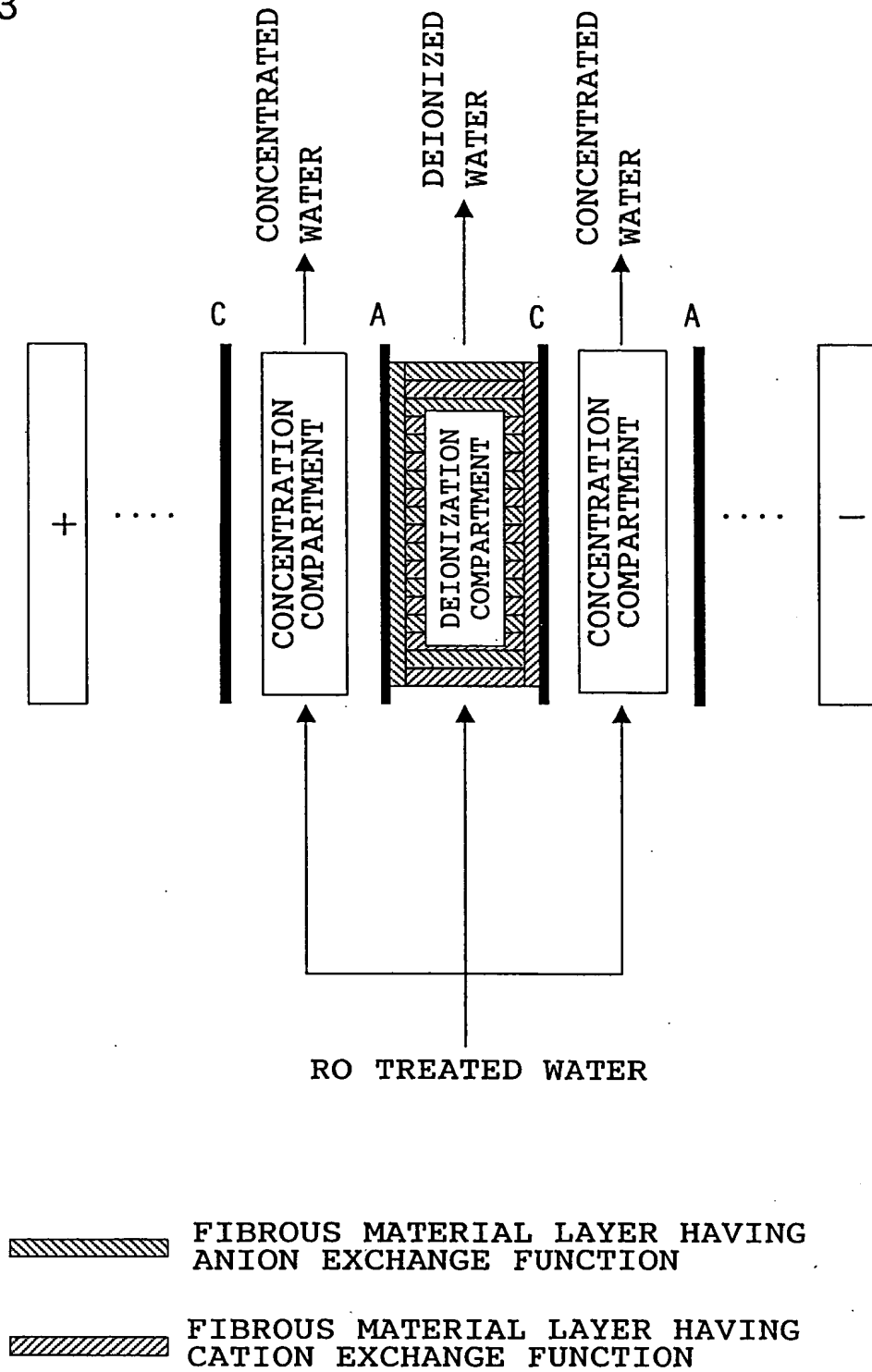


 FIBROUS MATERIAL LAYER HAVING ANION EXCHANGE FUNCTION

 FIBROUS MATERIAL LAYER HAVING CATION EXCHANGE FUNCTION

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FIG. 3



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FIG. 4

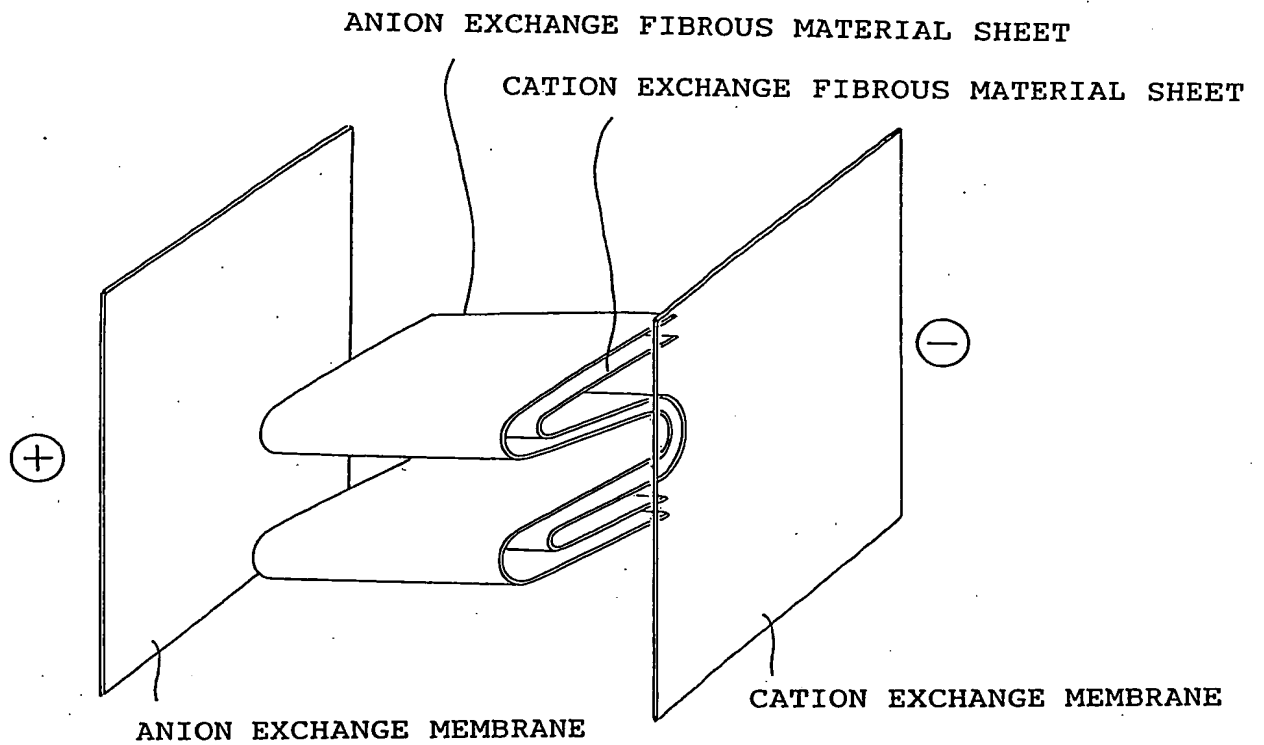
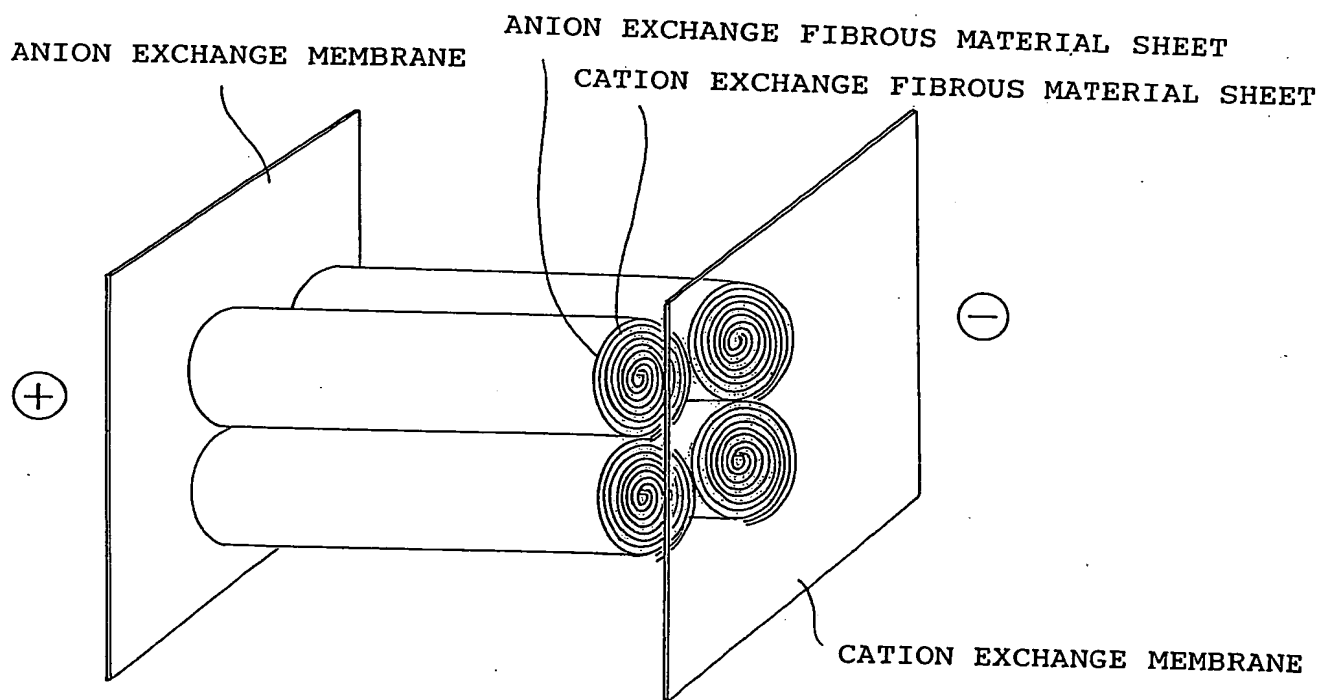
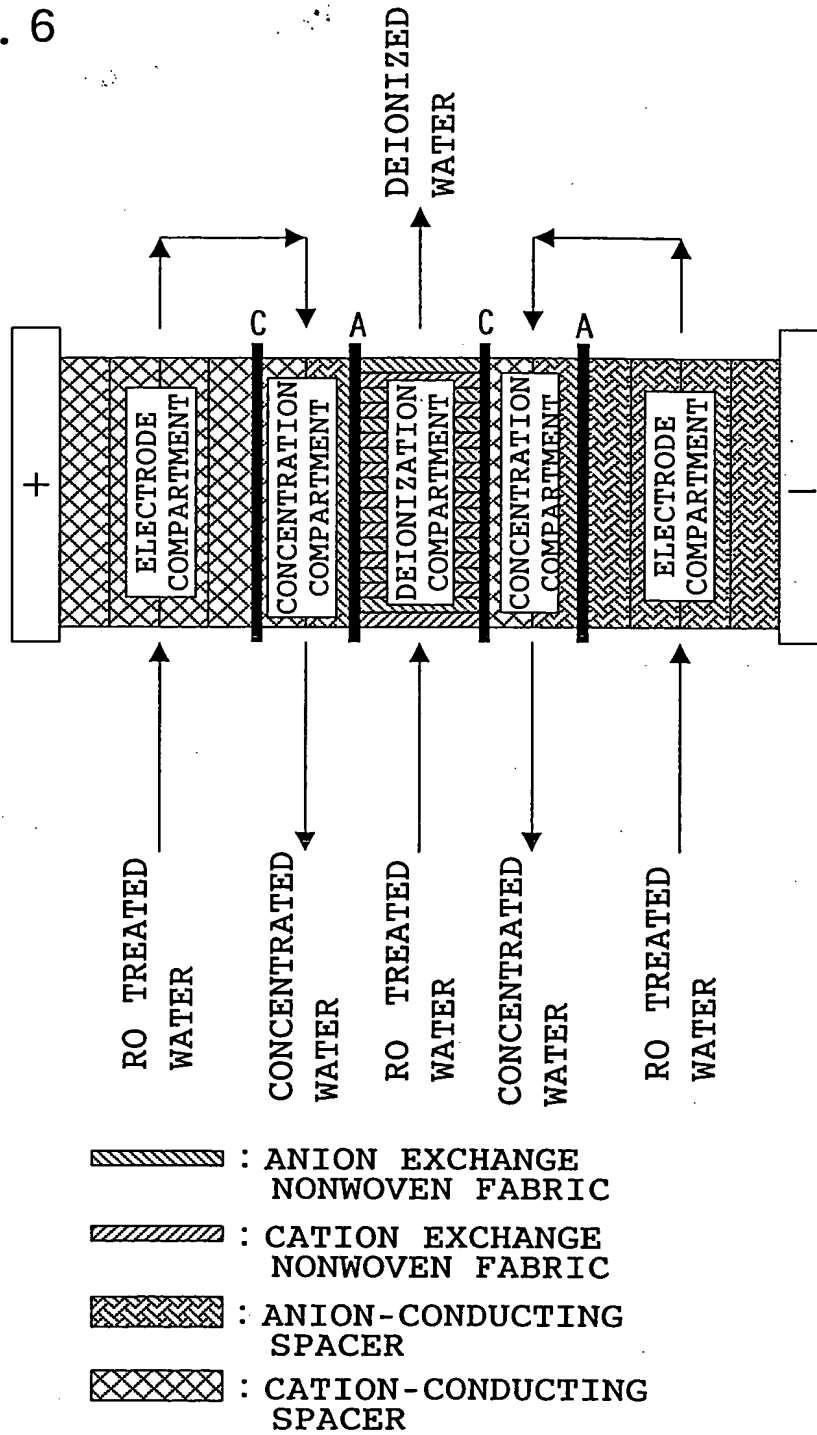


FIG. 5



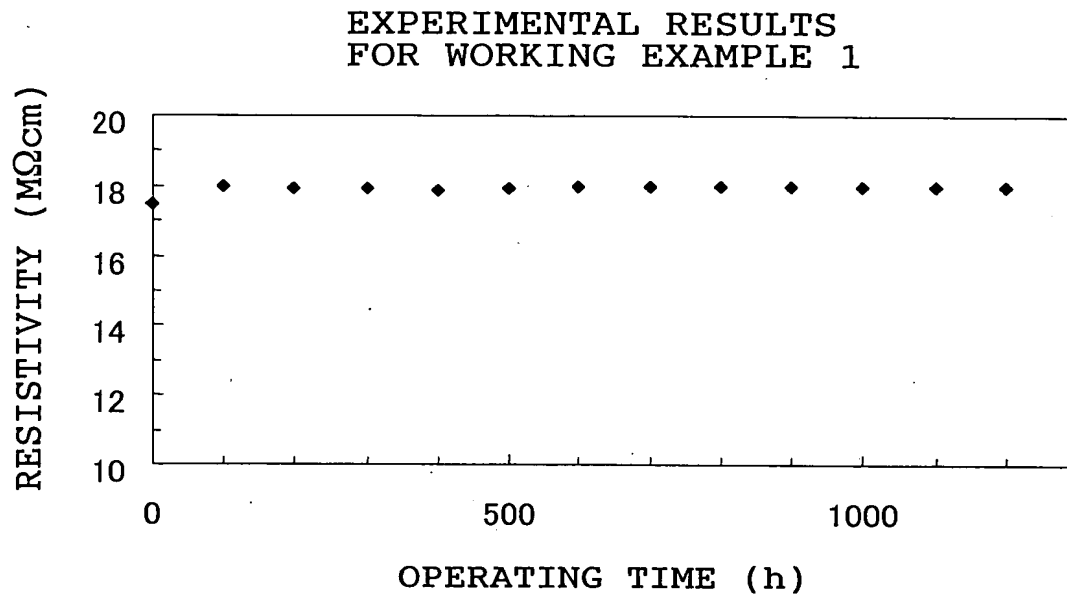
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FIG. 6



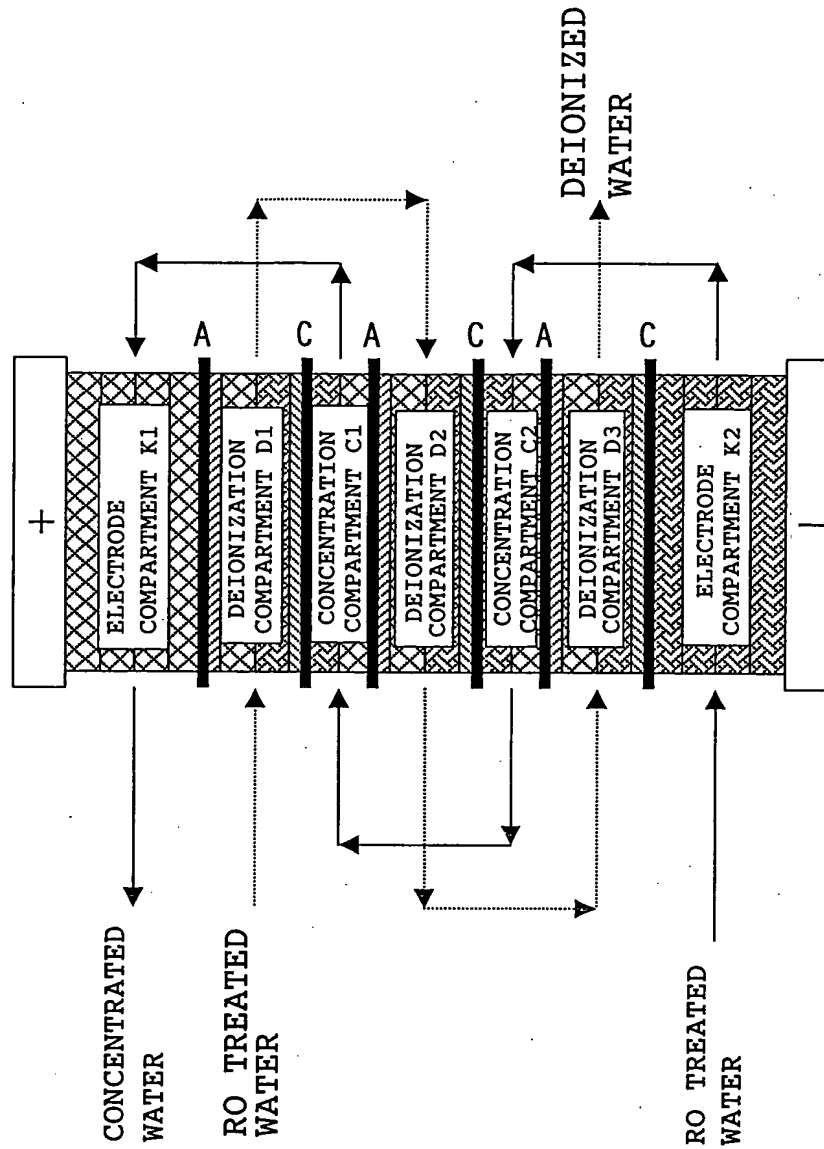
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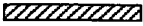


FIG. 7



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FIG. 8



-  : ANION EXCHANGE NONWOVEN FABRIC
-  : CATION EXCHANGE NONWOVEN FABRIC
-  : ANION-CONDUCTING SPACER
-  : CATION-CONDUCTING SPACER

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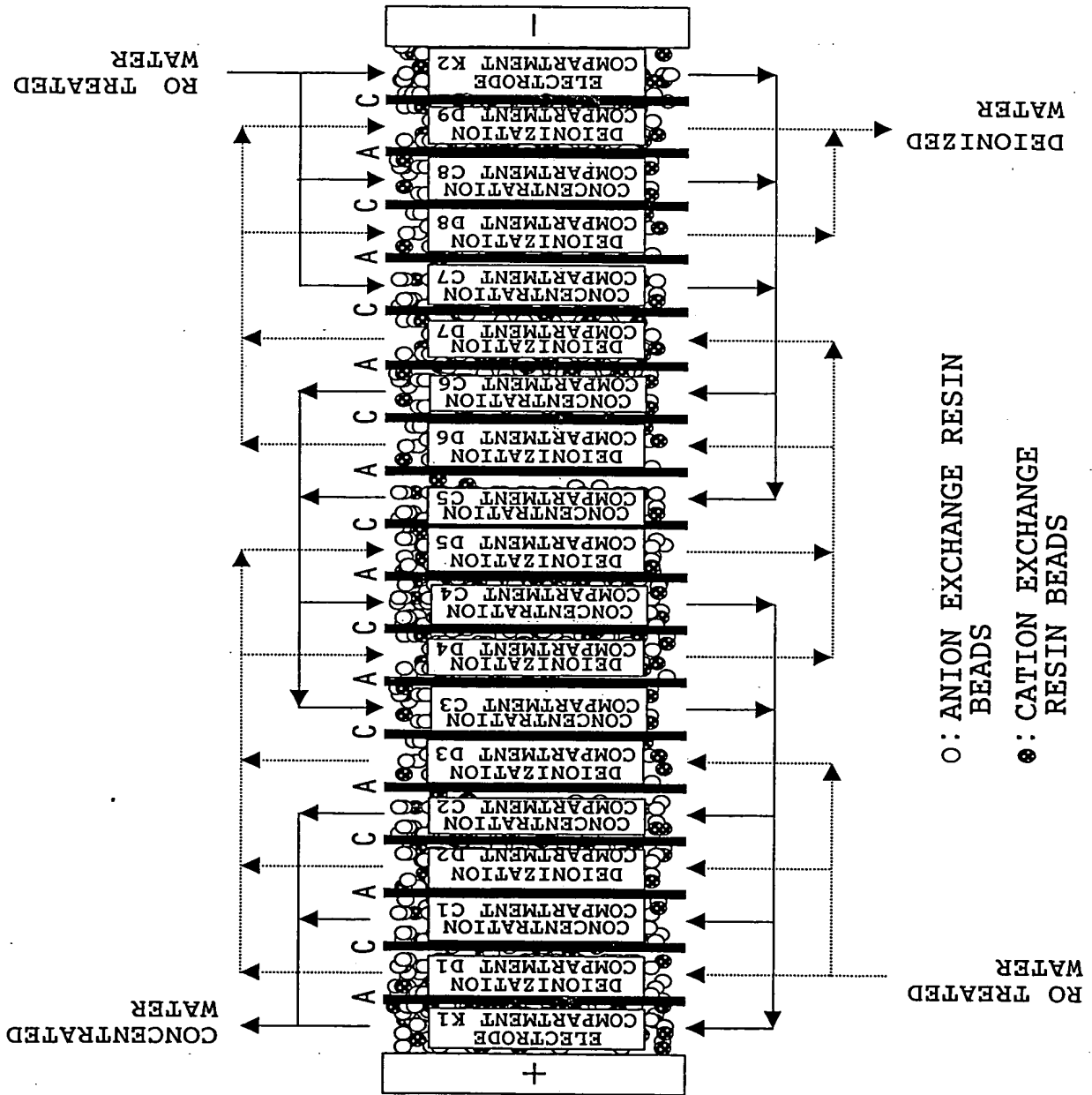
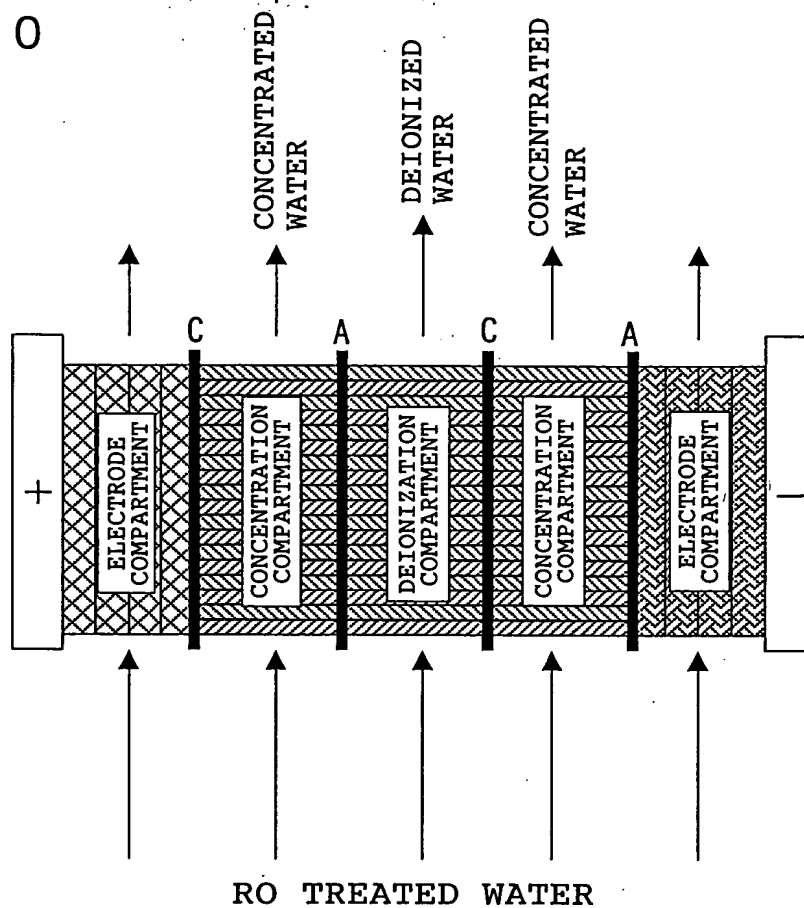
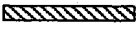





FIG. 9

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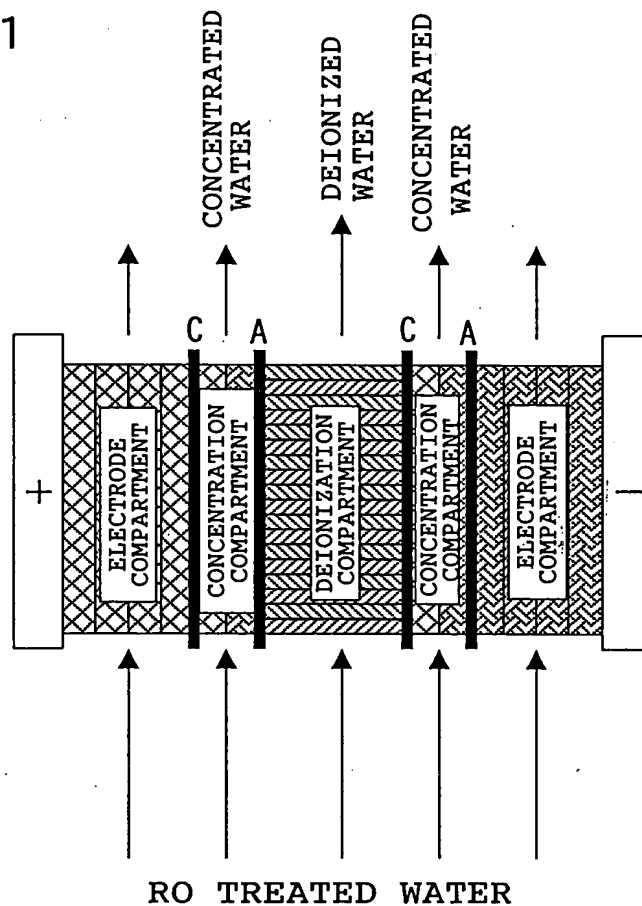
FIG. 10







-  : ANION EXCHANGE NONWOVEN FABRIC
-  : CATION EXCHANGE NONWOVEN FABRIC
-  : ANION-CONDUCTING SPACER
-  : CATION-CONDUCTING SPACER

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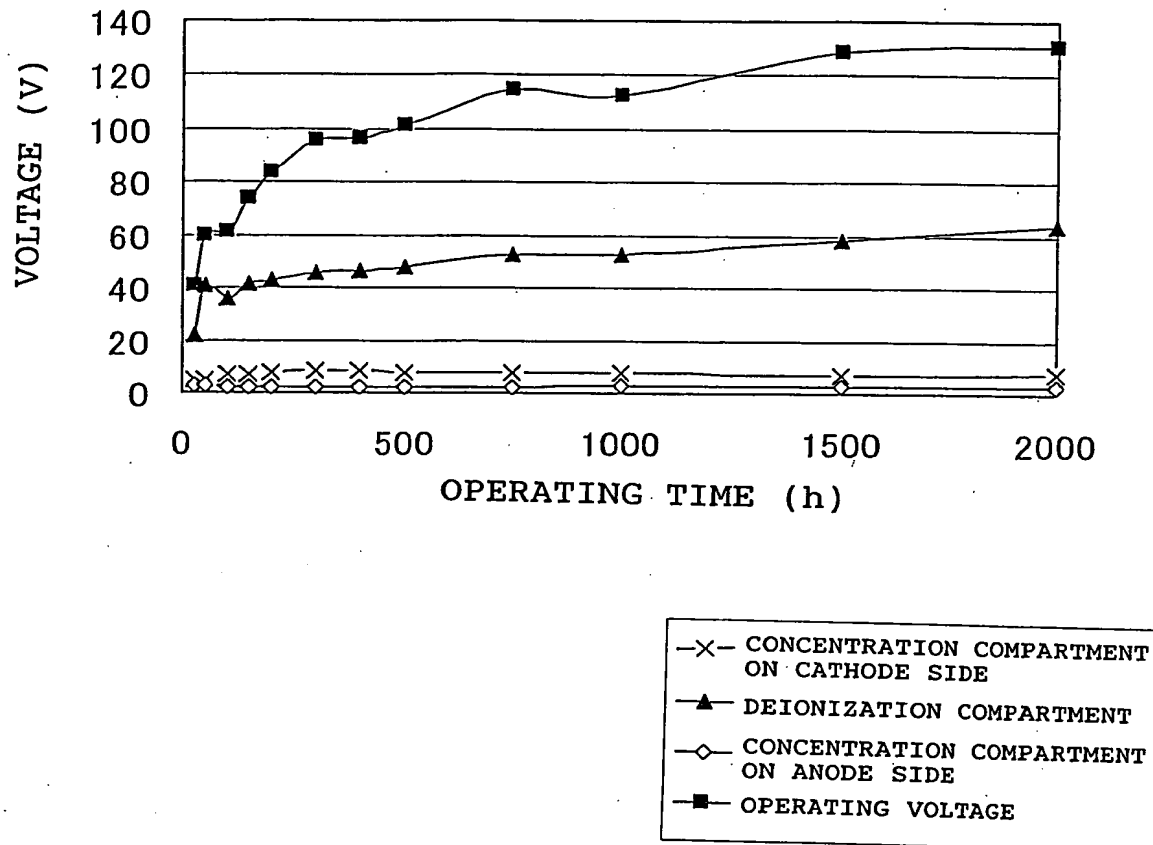
FIG. 1 1



-  : ANION EXCHANGE NONWOVEN FABRIC
-  : CATION EXCHANGE NONWOVEN FABRIC
-  : ANION-CONDUCTING SPACER
-  : CATION-CONDUCTING SPACER

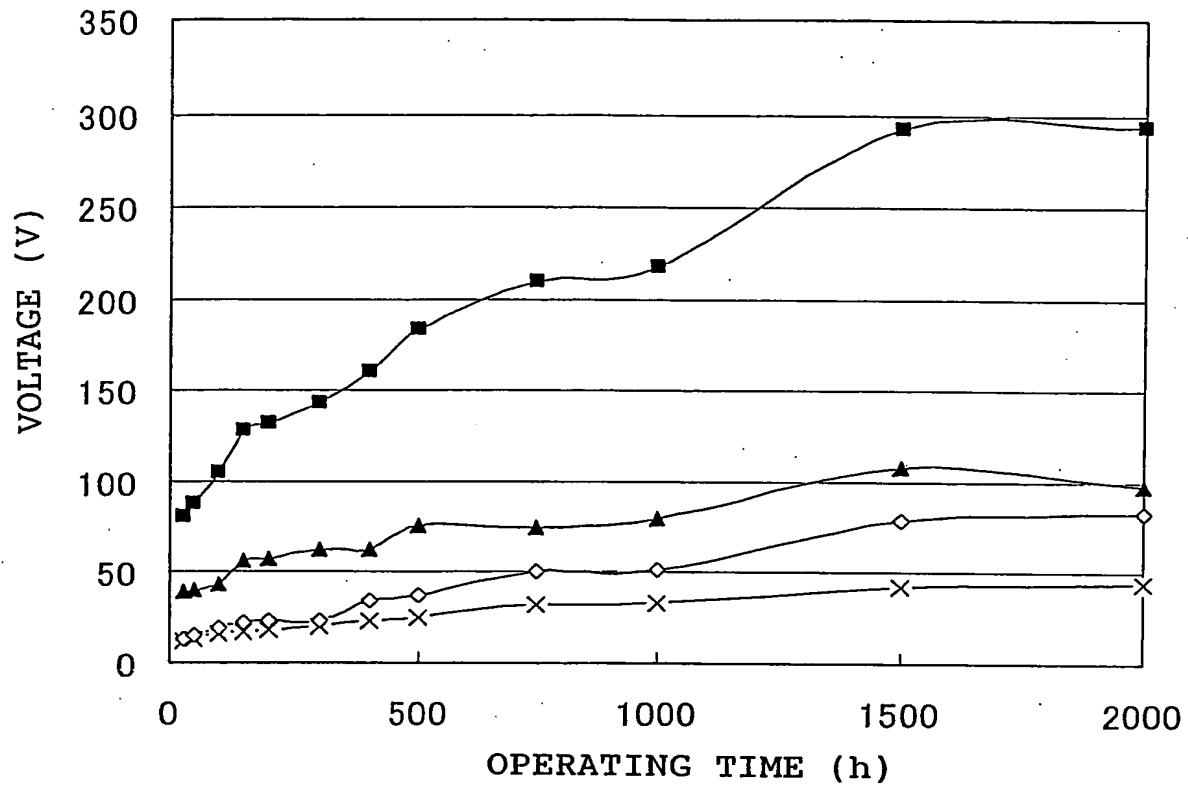
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FIG. 1 2



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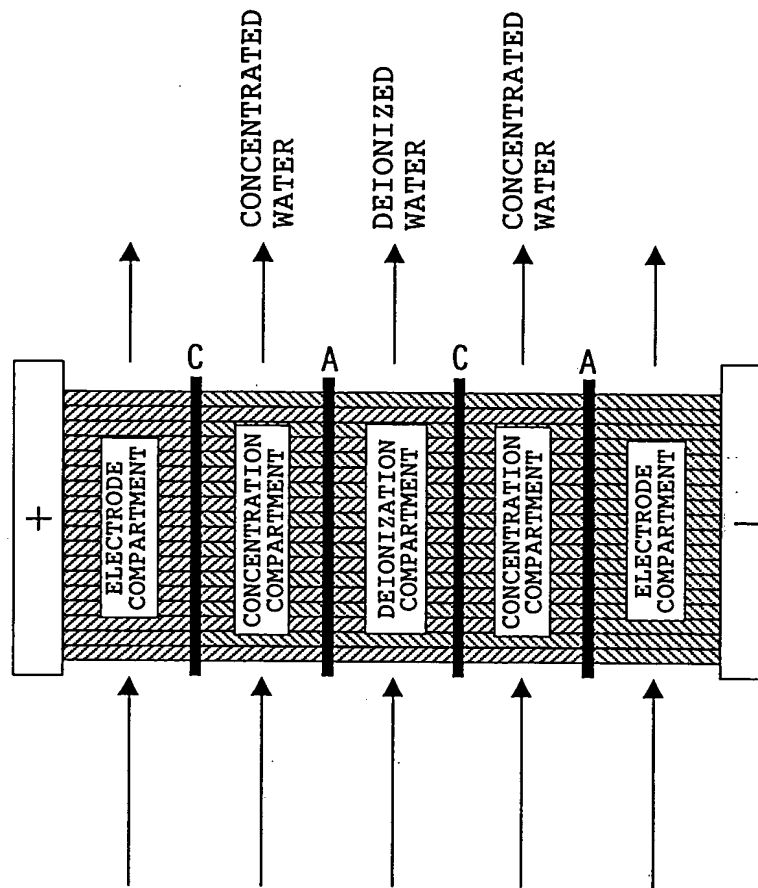
FIG. 1 3



- X- CONCENTRATION COMPARTMENT ON CATHODE SIDE
- ▲- DEIONIZATION COMPARTMENT
- ◇- CONCENTRATION COMPARTMENT ON ANODE SIDE
- OPERATING VOLTAGE

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FIG. 1 4



RO TREATED WATER



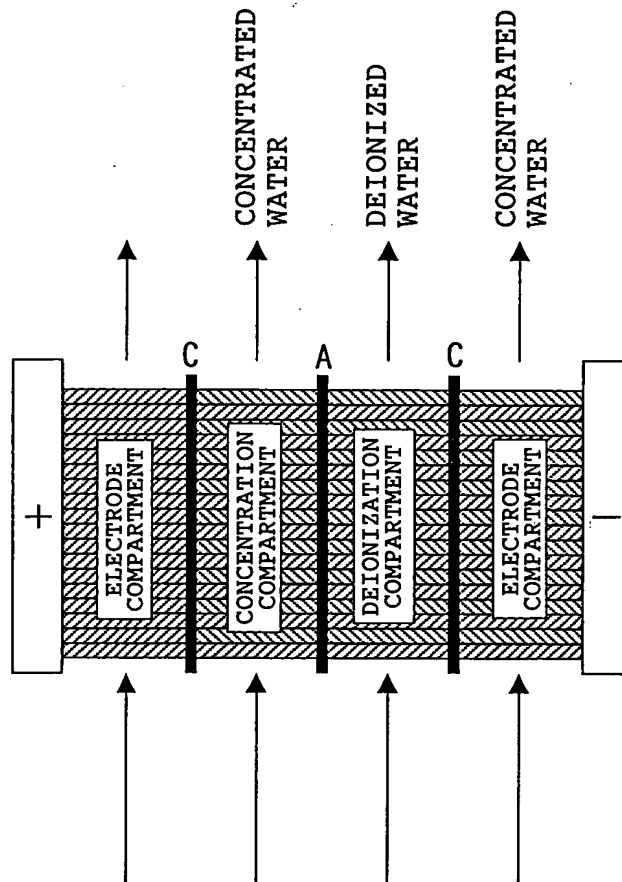
 : ANION EXCHANGE
NONWOVEN FABRIC
 : CATION EXCHANGE
NONWOVEN FABRIC

FIG. 1 5



RO TREATED WATER



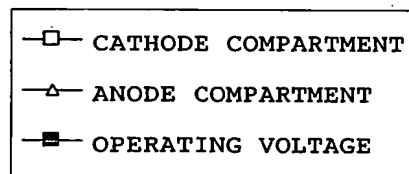
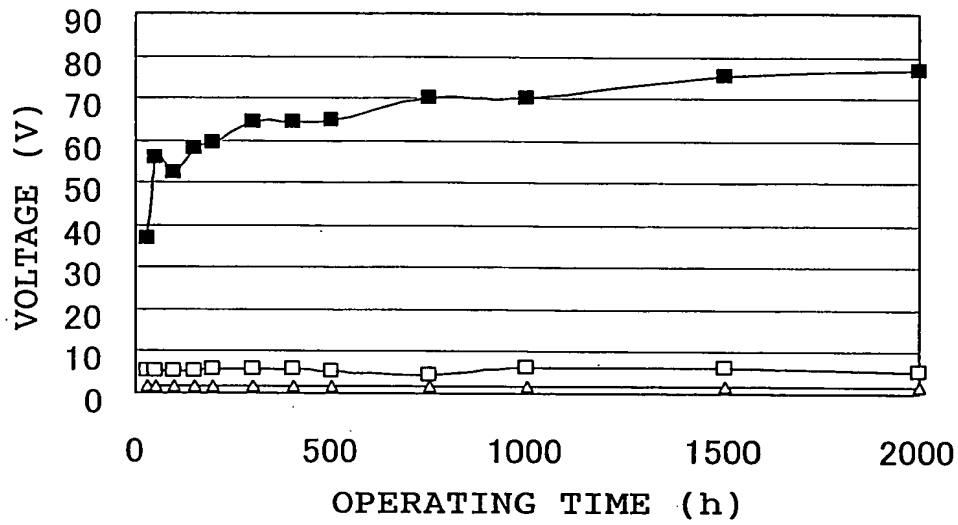
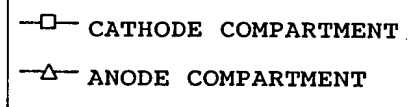
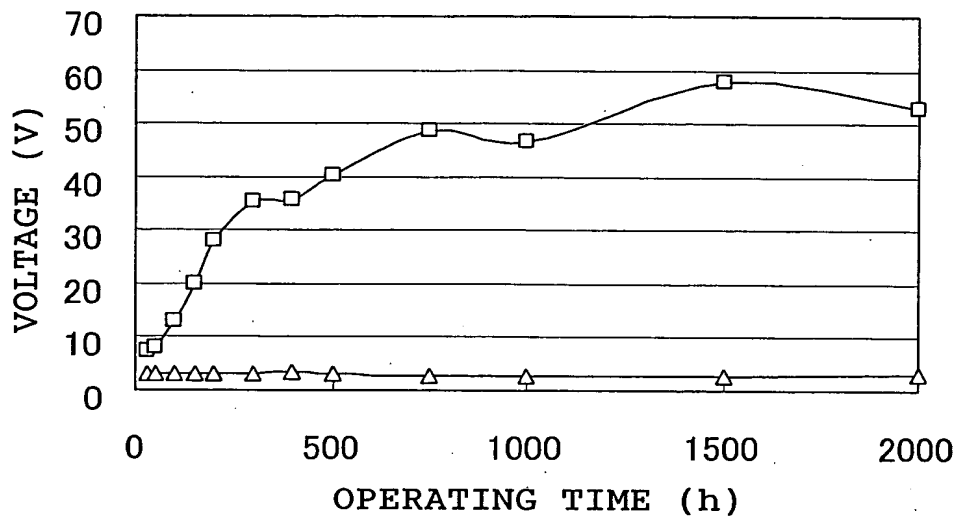
 : ANION EXCHANGE
NONWOVEN FABRIC
 : CATION EXCHANGE
NONWOVEN FABRIC

FIG. 1 6



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FIG. 1 7



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FIG. 1 8

